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2176

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Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No. 10/760,671	Applicant(s) LIU ET AL.	
	Examiner James J. Debrow	Art Unit 2176	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 21 January 2004.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-49 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-49 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 21 January 2004 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____ |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| Paper No(s)/Mail Date <u>1/21/2004</u> . | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

1. This action is responsive to communications: Application filled 21 Jan. 2004.
2. Claims 1-49 are pending in this case. Claims 1, 4, 9, 16, 28, 32, and 36 are independent claims.

Claim Rejections - 35 USC § 101

3. 35 U.S.C. 101 reads as follows:

Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

Claims 1-15, 28-41, 43-46, 48, and 49 are rejected under 35 U.S.C. 101 because the claimed invention is directed to non-statutory subject matter.

Claims 1-15, 28-41, 43-46, 48, and 49:

The language of the claims raise a question as to whether the claims are directed merely to an abstract idea that would not result in a practical application producing a concrete, useful, and tangible result to form the basis of statutory subject matter under 35 U.S.C. 101.

Claims 1-3, 39, and 44:

Independent Claim 1 recites a "media presentation authoring system" for accepting commands of processing applied to data. The "media presentation authoring system" is comprised solely of computer software. Thus, the recited invention is computer software *per se*.

A computer program is merely a set of instruction capable of being executed by a computer. The computer program itself is not a statutory process in that it does not include the computer-readable medium needed to realize the functionality of the computer program. Thus, as currently recited, Claim 1 is directed to an abstract idea that does not produce a concrete, useful and tangible result, in that the method merely *manipulates data*.

Stated differently, the method does nothing with the processed data that produces a concrete, useful and tangible result, such as displaying the data.

Dependent Claims 2, 3, 39, and 44 merely recite further manipulation or specification of data. Thus, none of Claims 2, 3, 39, and 44 produce a concrete, useful, and tangible result to form the basis of statutory subject matter under 35 U.S.C. 101.

Claims 4-8, 40, and 45:

Independent Claim 4 recites a "media presentation authoring interface" for accepting commands of processing applied to data. The "media presentation authoring interface" is comprised solely of computer software. Thus, the recited invention is computer software *per se*.

A computer program is merely a set of instruction capable of being executed by a computer. The computer program itself is not a statutory process in that it does not include the computer-readable medium needed to realize the functionality of the computer program. Thus, as currently recited, Claim 4 is directed to an abstract idea

Art Unit: 2176

that does not produce a concrete, useful and tangible result, in that the method merely *manipulates data*.

Stated differently, the method does nothing with the processed data that produces a concrete, useful and tangible result, such as displaying the data.

Dependent Claims 5-8, 40, and 45 merely recite further manipulation or specification of data. Thus, none of Claims 5-8, 40, and 45 produce a concrete, useful, and tangible result to form the basis of statutory subject matter under 35 U.S.C. 101.

Claims 9-15, 41, and 46:

Independent Claim 9 recites a "media presentation authoring interface" for accepting commands of processing applied to data. The "media presentation authoring interface" is comprised solely of computer software. Thus, the recited invention is computer software *per se*.

A computer program is merely a set of instruction capable of being executed by a computer. The computer program itself is not a statutory process in that it does not include the computer-readable medium needed to realize the functionality of the computer program. Thus, as currently recited, Claim 9 is directed to an abstract idea that does not produce a concrete, useful and tangible result, in that the method merely *manipulates data*.

Stated differently, the method does nothing with the processed data that produces a concrete, useful and tangible result, such as displaying the data.

Dependent Claims 10-15, 41, and 46 merely recite further manipulation or specification of data. Thus, none of Claims 10-15, 41, and 46 produce a concrete, useful, and tangible result to form the basis of statutory subject matter under 35 U.S.C. 101.

Claims 28-31:

Independent Claim 28 recites a "media presentation previewing interface" for accepting commands of processing applied to data. The "media presentation previewing interface" is comprised solely of computer software. Thus, the recited invention is computer software *per se*.

A computer program is merely a set of instruction capable of being executed by a computer. The computer program itself is not a statutory process in that it does not include the computer-readable medium needed to realize the functionality of the computer program. Thus, as currently recited, Claim 28 is directed to an abstract idea that does not produce a concrete, useful and tangible result, in that the method merely *manipulates data*.

Stated differently, the method does nothing with the processed data that produces a concrete, useful and tangible result, such as displaying the data.

Dependent Claims 29-31 merely recite further manipulation or specification of data. Thus, none of Claims 29-31 produce a concrete, useful, and tangible result to form the basis of statutory subject matter under 35 U.S.C. 101.

Claims 32-35, and 48:

Independent Claim 32 recites a “media presentation previewing interface” for accepting commands of processing applied to data. The “media presentation previewing interface” is comprised solely of computer software. Thus, the recited invention is computer software *per se*.

A computer program is merely a set of instruction capable of being executed by a computer. The computer program itself is not a statutory process in that it does not include the computer-readable medium needed to realize the functionality of the computer program. Thus, as currently recited, Claim 32 is directed to an abstract idea that does not produce a concrete, useful and tangible result, in that the method merely *manipulates data*.

Stated differently, the method does nothing with the processed data that produces a concrete, useful and tangible result, such as displaying the data.

Dependent Claims 33-35, and 48 merely recite further manipulation or specification of data. Thus, none of Claims 33-35, and 48 produce a concrete, useful, and tangible result to form the basis of statutory subject matter under 35 U.S.C. 101.

Claims 37, 38, 43, and 49:

Independent Claim 36 recites a “media presentation previewing interface” for accepting commands of processing applied to data. The “media presentation previewing interface” is comprised solely of computer software. Thus, the recited invention is computer software *per se*.

A computer program is merely a set of instruction capable of being executed by a computer. The computer program itself is not a statutory process in that it does not include the computer-readable medium needed to realize the functionality of the computer program. Thus, as currently recited, Claim 36 is directed to an abstract idea that does not produce a concrete, useful and tangible result, in that the method merely *manipulates data*.

Stated differently, the method does nothing with the processed data that produces a concrete, useful and tangible result, such as displaying the data.

Dependent Claims 37, 38, 43 and 49 merely recite further manipulation or specification of data. Thus, none of Claims 37, 38, 43 and 49 produce a concrete, useful, and tangible result to form the basis of statutory subject matter under 35 U.S.C. 101.

Claim Rejections - 35 USC § 102

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

5. **Claims 1-3, 16-20, and 44 are rejected under 35 U.S.C. 102(e) as being anticipated by Deutscher et al (Pub. No.: US 2004/0001106 A1; Filed Jun. 26, 2002) (hereinafter 'Deutscher').**

In regards to independent claim 1, Deutscher discloses a media presentation authoring system comprising: a media presentation environment representation wherein a portion of the media presentation environment representation is defined as a hot-spot associated with a particular media presentation device (0076, lines 26-29; Deutscher discloses in addition to monitors, computers may include other peripheral output devices such as speakers and printers. As defined in the specification (0083), a hot-spot is defined as a visual representation of an output device, such as a display, a loud speaker, a printer, and any of the other media presentation device currently known, or later developed.).

Art Unit: 2176

In regards to dependent claim 2, Deutscher discloses *the media presentation authoring system of claim 1, wherein the media presentation environment representation is a pictorial representation of the media presentation environment* (0011-0013; Deutscher discloses the media is imported into the presentation, such as video, documents, slides and other source files to create the presentation.).

In regards to dependent claim 3, Deutscher discloses *the media presentation authoring system according to claim 1, wherein the media presentation environment representation includes a plurality of representations of at least a portion of the media presentation environment* (0014, lines 26-29; Deutscher discloses editable feature include access to the images, presentation slides, thumbnail export options, and audio and video options. Thus these features indicate a plurality of representations of the media presentation.).

In regards to independent claim 16, Deutscher discloses *a method for authoring a media presentation comprising:*

selecting a physical device for a presentation unit in a media presentation environment representation (0076, lines 26-29; Deutscher discloses in addition to monitors, computers may include other peripheral output devices such as speakers and printers. As defined in the specification (0083), a hot-spot is defined as a visual representation of an output device, such as a display, a loud speaker, a printer, and any of the other media presentation device currently known, or later developed.).

manipulating a visual representation of the presentation unit (0026; Deutscher discloses a visual timeline editor which provides a graphical representation, allows the user to easily see these scheduled events and obtain basic information about them. Deutscher further discloses dragging an event icon updates the underlying time code displayed in the data grids, and changes the presentation data file.).

recording a display of the presentation unit in a storage medium (0071-0076)
previewing the presentation (0011; Deutscher discloses a video preview sector.).

In regards to independent claim 17, Deutscher discloses *the method for authoring a media presentation according to claim 16, wherein manipulating includes interacting with the presentation unit in a computer and in the media presentation environment representation unit* (0007; 0026; Deutscher discloses presentation system includes a manipulation tool. Deutscher also discloses a visual timeline editor which provides a graphical representation, allows the user to easily see these scheduled events and obtain basic information about them. Deutscher further discloses dragging an event icon updates the underlying time code displayed in the data grids, and changes the presentation data file.).

In regards to independent claim 18, Deutscher discloses *a method for authoring a media presentation according to claim 16, wherein the physical device is a part of the media presentation environment* (0076; 0077; 110 in Fig. 1; Deutscher discloses presentation system includes a manipulation tool. Deutscher also discloses

Art Unit: 2176

a visual timeline editor which provides a graphical representation, allows the user to easily see these scheduled events and obtain basic information about them. Deutscher further discloses dragging an event icon updates the underlying time code displayed in the data grids, and changes the presentation data file.).

In regards to dependent claim 19, Deutscher discloses the *method for authoring a media presentation according to claim 16, wherein manipulating includes dragging the visual representation of the presentation unit from an integrated presentation authoring environment or from a file directory and dropping the visual representation of the presentation unit on a representation of the physical device* (0007; Deutscher discloses the invention high-level production features includes a content preview, grid-based editing and manipulation tools, graphic-based drag and drop editing features.).

In regards to dependent claim 20, Deutscher discloses the *method for authoring a media presentation according to claim 16, wherein the physical device is selected from the list comprising a display, a projector, a printer, a loud speaker, a light, a facsimile machine, a computer, a tape recorder, a video recorder, a camera, a fan, an air blower, a sprinkler, a water faucet, and a stereoscopic projector* (0076, lines 26-29; Deutscher discloses in addition to monitors, computers may include other peripheral output devices such as speakers and printers. As defined in the specification (0083), a hot-spot is defined as a visual representation of an output device, such as a

Art Unit: 2176

display, a loud speaker, a printer, and any of the other media presentation device currently known, or later developed. Using the broadest interpretation of the specification, and Detscher teaching, "other peripheral output devices" includes the physical devices cited in the claim.).

In regards to dependent claim 44, Deutscher discloses *a media presentation authoring system architecture including the media presentation authoring system according to claim 1, comprising:*

a media presentation authoring, previewing and playback software component (0104; Deutscher discloses a video preview sector which is generally used to provide a playback of the video presentation or audio program.).

one or more remote control agents corresponding to a media presentation device (0105; Deutscher discloses a video preview sector has control buttons for controlling the playback of the video presentation or audio program.).

Claim Rejections - 35 USC § 103

6. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

7. **Claims 4-15, 39-42, and 45-48 are rejected under 35 U.S.C. 103(a) as being unpatentable over Deutscher et al (Pub. No.: US 2004/0001106 A1; Filed Jun. 26, 2002) (hereinafter 'Deutscher') in view of Land et al. (Pub. No.: US 2004/0039934 A1; Filed Dec. 18, 2002) (hereinafter 'Land').**

In regards to independent claim 4, Deutscher discloses a *media presentation authoring interface comprising:*

a *hyper-slide preview portion.* (0012; Deutscher disclose when the file containing the presentation slides are imported into the authoring tool, the slide preview sector allows the user to scan through the thumbnails for each slide. As specified in the specification (0059), a hyper-slide is an input source (visual slide, image, video segment) that can be rendered or completed by a media presentation device.).

a *media presentation environment representation portion, wherein the media presentation environment representation portion includes a portion defined as a hot-spot corresponding to specific media presentation device* (0076, lines 26-29; Deutscher discloses in addition to monitors, computers may include other peripheral

Art Unit: 2176

output devices such as speakers and printers. As defined in the specification (0083), a hot-spot is defined as a visual representation of an output device, such as a display, a loud speaker, a printer, and any of the other media presentation device currently known, or later developed).

Deutscher does not disclose expressly *a hyper-slide listing portion;*
an animation order listing.

However, Land discloses *a hyper-slide listing portion* (0264-0265; Land teaches a control display, which provides visual representation for relation and actions among objects using a "list view" (*hyper-slide listing*).

an animation order listing (0264-0265; Land teaches a control display, which provides visual representation for relation and actions among objects using a "list view" (*hyper-slide listing*) At the time of the invention, it would have been obvious that these objects could include animation objects.).

Therefore, at the time of the invention, it would have been obvious to a person of ordinary skill in the art to combine Deutscher with Land for the benefit of providing the user with advanced control features that maintain clarity, intuitive and ease of use (0041).

In regards to dependent claim 5, Deutscher discloses *the media presentation authoring interface according to claim 4, further comprising a level of granularity*

Art Unit: 2176

selecting portion (0020; Deutscher discloses the user can choose how granular the timeline should be with the transcript grid (*hyper-slide listing*)).

In regards to dependent claim 6, Deutscher discloses *the media presentation authoring interface according to claim 4, wherein the media presentation environment representation portion is a pictorial representation of the media presentation environment* (0011-0013; Deutscher discloses the media is imported into the presentation, such as video, documents, slides and other source files to create the presentation.).

In regards to dependent claim 7, Deutscher discloses *the media presentation authoring interface according to claim 4, wherein the media presentation environment representation includes a plurality of representations of the media presentation environment* (0014, lines 26-29; Deutscher discloses editable feature include access to the images, presentation slides, thumbnail export options, and audio and video options. Thus these features indicate a plurality of representations of the media presentation.).

In regards to dependent claim 8, Deutscher discloses *the media presentation authoring interface according to claim 4, wherein the media presentation environment representation portion includes a plurality of portions defined as a hot-spots corresponding to a plurality of specific media presentation devices* (0076, lines 26-29; Deutscher discloses in addition to monitors, computers may include other peripheral

Art Unit: 2176

output devices such as speakers and printers. As defined in the specification (0083), a hot-spot is defined as a visual representation of an output device, such as a display, a loud speaker, a printer, and any of the other media presentation device currently known, or later developed.).

In regards to independent claim 9, Deutscher discloses *a media presentation authoring interface comprising:*

a media presentation environment representation portion (0011; Deutscher discloses a presentation tool window that the user employs to craft a presentation.).

a hyper-slide listing widget portion (0014, lines 26-29; Deutscher discloses editable feature include access to the images, presentation slides, thumbnail export options, and audio and video options. Thus these features indicate a plurality of representations of the media presentation.).

a media presentation authoring widget portion, wherein the media presentation environment representation portion includes a portion defined as a hot-spot associated with a particular media presentation device (0076, lines 26-29; Deutscher discloses in addition to monitors, computers may include other peripheral output devices such as speakers and printers. As defined in the specification (0083), a hot-spot is defined as a visual representation of an output device, such as a display, a loud speaker, a printer, and any of the other media presentation device currently known, or later developed.).

the media presentation authoring widget portion includes a portion associated with a particular media presentation device (0076, lines 26-29; Deutscher discloses in

addition to monitors, computers may include other peripheral output devices such as speakers and printers.).

the media presentation authoring widget portion includes a portion associated with a particular time during a media presentation (0011; Deutscher discloses the program contained in the master track file will drive the timeline of events in the presentation. All indexing, timing, and associated master track metadata will also be stored in this file.).

Deutscher does not disclose expressly *the hyper-slide listing widget portion includes one or more widgets identifying a hyper-slide for use in a media presentation*.

However, Land discloses *the hyper-slide listing widget portion includes one or more widgets identifying a hyper-slide for use in a media presentation* (0264-0265; Land teaches a control display, which provides visual representation for relation and actions among objects using a "list view"(*hyper-slide listing*)).

Therefore, at the time of the invention, it would have been obvious to a person of ordinary skill in the art to combine Deutscher with Land for the benefit of providing the user with advanced control features that maintain clarity, intuitive and ease of use (0041).

In regards to dependent claim 10, Deutscher discloses *the media presentation authoring interface according to claim 9, wherein the media presentation environment representation portion includes a pictorial representation of the media presentation environment* (0011-0013; Deutscher discloses the media is imported into the

Art Unit: 2176

presentation, such as video, documents, slides and other source files to create the presentation.).

In regards to dependent claim 11, Deutscher discloses *the media presentation authoring interface according to claim 9, wherein the media presentation authoring widget portion includes one or more media presentation authoring widgets that extend for more than one time portion of the media presentation* (0011; Deutscher discloses the program contained in the master track file will drive the timeline of events in the presentation. All indexing, timing, and associated master track metadata will also be stored in this file.).

In regards to dependent claim 12, Deutscher discloses *the media presentation authoring interface according to claim 11, wherein the one or more media presentation authoring widgets are bars having an adjustable length* (0091).

In regards to dependent claim 13, Deutscher does not disclose expressly *the media presentation authoring interface according to claim 9, further comprising a media presentation device listing portion.*

However, Land discloses *the media presentation authoring interface according to claim 9, further comprising a media presentation device listing portion* (0264-0265; Land teaches a control display, which provides visual representation for relation and actions among objects using a "list view.

Therefore, at the time of the invention, it would have been obvious to a person of ordinary skill in the art to combine Deutscher with Land for the benefit of providing the user with advanced control features that maintain clarity, intuitive and ease of use (0041).

In regards to dependent claim 14, Deutscher discloses *the media presentation authoring interface according to claim 13, wherein a user defines an association between a hot-spot in the media presentation environment representation portion* (0076, lines 26-29; Deutscher discloses in addition to monitors, computers may include other peripheral output devices such as speakers and printers. As defined in the specification (0083), a hot-spot is defined as a visual representation of an output device, such as a display, a loud speaker, a printer, and any of the other media presentation device currently known, or later developed.)

Deutscher does not disclose expressly *a media presentation device listed in the media presentation device listing portion.*

However, Land discloses *a media presentation device listed in the media presentation device listing portion* (0264-0265; Land teaches a control display, which provides visual representation for relation and actions among objects using a "list view.

Therefore, at the time of the invention, it would have been obvious to a person of ordinary skill in the art to combine Deutscher with Land for the benefit of providing the

Art Unit: 2176

user with advanced control features that maintain clarity, intuitive and ease of use (0041).

In regards to dependent claim 15, Deutscher discloses *the media presentation authoring interface according to claim 9, wherein the media presentation environment representation portion includes a plurality of portions defined as a hot-spots corresponding to a plurality of particular media presentation devices* (0076, lines 26-29; Deutscher discloses in addition to monitors, computers may include other peripheral output devices such as speakers and printers. As defined in the specification (0083), a hot-spot is defined as a visual representation of an output device, such as a display, a loud speaker, a printer, and any of the other media presentation device currently known, or later developed.).

In regards to dependent claim 39, Deutscher discloses *a media presentation playback system that plays back an authored media presentation authored by the media presentation authoring system according to claim 1, comprising:*

one or more remote control agents corresponding to one or more media presentation devices (0011, 0016, 0026, 0104-0106; Deutscher discloses a video preview sector which includes control buttons to provide playback of the video presentation or audio program.).

Deutscher does not disclose expressly *a master computer*.

Art Unit: 2176

However, Land discloses *a master computer* (0381-0382; 5060 Fig. 50; Land teaches a control display manager which is part of a widow within a graphical user display.).

Therefore, at the time of the invention, it would have been obvious to a person of ordinary skill in the art to combine Deutscher with Land for the benefit of providing the user with advanced control features that maintain clarity, intuitive and ease of use (0041).

In regards to dependent claim 40, Deutscher discloses *a media presentation playback system that plays back an authored media presentation authored in the media presentation authoring interface according to claim 4, comprising:*

one or more remote control agents corresponding to one or more media presentation devices (0011, 0016, 0026, 0104-0106; Deutscher discloses a video preview sector which includes control buttons to provide playback of the video presentation or audio program.).

Deutscher does not disclose expressly *a master computer*.

However, Land discloses *a master computer* (0381-0382; 5060 Fig. 50; Land teaches a control display manager which is part of a widow within a graphical user display.).

Therefore, at the time of the invention, it would have been obvious to a person of ordinary skill in the art to combine Deutscher with Land for the benefit of providing the

Art Unit: 2176

user with advanced control features that maintain clarity, intuitive and ease of use (0041).

In regards to dependent claim 41, Deutscher discloses a *media presentation playback system that plays back an authored media presentation authored in the media presentation authoring interface according to claim 9, comprising: one or more remote control agents corresponding to one or more media presentation devices* (0011, 0016, 0026, 0104-0106; Deutscher discloses a video preview sector which includes control buttons to provide playback of the video presentation or audio program.).

Deutscher does not disclose expressly a *master computer*.

However, Land discloses a *master computer* (0381-0382; 5060 Fig. 50; Land teaches a control display manager which is part of a window within a graphical user display.).

Therefore, at the time of the invention, it would have been obvious to a person of ordinary skill in the art to combine Deutscher with Land for the benefit of providing the user with advanced control features that maintain clarity, intuitive and ease of use (0041).

In regards to dependent claim 42, Deutscher discloses a *media presentation playback system that plays back an authored media presentation authored by the method of authoring a media presentation according to claim 16, comprising: one or*

Art Unit: 2176

more remote control agents corresponding to one or more media presentation devices (0011, 0016, 0026, 0104-0106; Deutscher discloses a video preview sector which includes control buttons to provide playback of the video presentation or audio program.).

Deutscher does not disclose expressly *a master computer*.

However, Land discloses *a master computer* (0381-0382; 5060 Fig. 50; Land teaches a control display manager which is part of a window within a graphical user display.).

Therefore, at the time of the invention, it would have been obvious to a person of ordinary skill in the art to combine Deutscher with Land for the benefit of providing the user with advanced control features that maintain clarity, intuitive and ease of use (0041).

In regards to dependent claim 45, Deutscher discloses *a media presentation authoring system architecture, comprising: a media presentation authoring, previewing and playback software component including the media presentation authoring interface according to claim 4* (0104; Deutscher discloses a video preview sector which is generally used to provide a playback of the video presentation or audio program.).

one or more remote control agents corresponding to a media presentation device (0011, 0016, 0026, 0104-0106; Deutscher discloses a video preview sector which includes control buttons to provide playback of the video presentation or audio program.).

In regards to dependent claim 46, Deutscher discloses a *media presentation authoring system architecture, comprising:*

a media presentation authoring, previewing and playback software component including the media presentation authoring interface according to claim 9 (0104;

Deutscher discloses a video preview sector which is generally used to provide a playback of the video presentation or audio program.).

one or more remote control agents corresponding to a media presentation device (0011, 0016, 0026, 0104-0106; Deutscher discloses a video preview sector which includes control buttons to provide playback of the video presentation or audio program.).

In regards to dependent claim 47, Deutscher discloses a *media presentation authoring system architecture, comprising:*

a media presentation authoring, previewing and playback software component capable of performing the method for authoring a media presentation according to claim 16 (0104; Deutscher discloses a video preview sector which is generally used to provide a playback of the video presentation or audio program.).

one or more remote control agents corresponding to a media presentation device (0011, 0016, 0026, 0104-0106; Deutscher discloses a video preview sector which includes control buttons to provide playback of the video presentation or audio program.).

In regards to dependent claim 48, Deutscher discloses a *media presentation authoring system architecture, comprising:*

a media presentation authoring, previewing and playback software component including the media presentation previewing interface according to claim 32 (0104;

Deutscher discloses a video preview sector which is generally used to provide a playback of the video presentation or audio program.).

one or more remote control agents corresponding to a media presentation device (0011, 0016, 0026, 0104-0106; Deutscher discloses a video preview sector which includes control buttons to provide playback of the video presentation or audio program.).

8. **Claims 21-38, and 49 are rejected under 35 U.S.C. 103(a) as being unpatentable over Deutscher et al (Pub. No.: US 2004/0001106 A1; Filed Jun. 26, 2002) (hereinafter 'Deutscher') in view of Robotham et al. (Pub. No.: US 2004/0039934 A1; Filed Dec. 18, 2002) (hereinafter 'Robotham').**

In regards to dependent claim 21, Deutscher does not expressly disclose the method for authoring a media presentation according to claim 16, wherein the presentation unit is selected from the list comprising a digital file, a sound, an audio segment, a video segment, a streaming video signal, a streaming audio signal, a turn light on action, a turn light off action, a dim light action, a brighten light action, a text box, an image, a turn display on action, a turn display off action, a turn projector on action, a turn projector off action, a print action, a brighten display action, a dim display action, a send facsimile action, and a computer action.

However, Robotham discloses the method for authoring a media presentation according to claim 16, wherein the presentation unit is selected from the list comprising a digital file, a sound, an audio segment, a video segment, a streaming video signal, a streaming audio signal, a turn light on action, a turn light off action, a dim light action, a brighten light action, a text box, an image, a turn display on action, a turn display off action, a turn projector on action, a turn projector off action, a print action, a brighten display action, a dim display action, a send facsimile action, and a computer action (col. 14, lines 26 – 51; Robotham discloses how sensors may provide information

Art Unit: 2176

about the set and image capture devices. Using the broadest interpretation of this meaning, the Examiner concludes the information provided by the sensors could allow the user to manipulate/control a *plurality of presentation units corresponding to a plurality of media devices in the media presentation environment.*)

Therefore, at the time of the invention it would have been obvious to a person of ordinary skill in the art to combine Deutscher with Robotham for the benefit combining live/recorded media elements in a virtual stage environment wherein avoiding expensive layering and other post production processes which can occur in media production (col. 12, lines 46-62).

In regards to dependent claim 22, Deutscher discloses a video preview sector, which is generally used to provide a playback of the video presentation or audio program (0104). Deutscher does not expressly disclose *the method for authoring a media presentation according to claim 16, wherein previewing includes previewing the presentation in an augmented reality environment.*

However, Robotham discloses an *augmented reality environment* (col. 7, lines 7-27; Robotham discloses a virtual environment for media production derived from image-based data objects that represent actual physical items on a set in the real world.)

Therefore, at the time of the invention it would have been obvious to a person of ordinary skill in the art to combine Deutscher with Robotham for the benefit combining live/recorded media elements in a virtual stage environment wherein avoiding

Art Unit: 2176

expensive layering and other post production processes which can occur in media production (col. 12, lines 46-62).

In regards to dependent claim 23, Deutscher discloses a video preview sector, which is generally used to provide a playback of the video presentation or audio program (0104). Deutscher does not expressly disclose *the method for authoring a media presentation according to claim 16, wherein previewing includes previewing the presentation in a virtual reality environment.*

However, Robotham discloses an *augmented reality environment* (col. 7, lines 7-27; Robotham discloses a virtual environment for media production derived from image-based data objects that represent actual physical items on a set in the real world.)

Therefore, at the time of the invention it would have been obvious to a person of ordinary skill in the art to combine Deutscher with Robotham for the benefit combining live/recorded media elements in a virtual stage environment wherein avoiding expensive layering and other post production processes which can occur in media production (col. 12, lines 46-62).

In regards to dependent claim 24, Deutscher discloses a video preview sector, which is generally used to provide a playback of the video presentation or audio program (0104). Deutscher does not expressly disclose *the method for authoring a media presentation according to claim 16, wherein previewing includes previewing the*

Art Unit: 2176

presentation in a combination of an augmented reality environment and a virtual reality environment.

However, Robotham discloses an *augmented reality environment* (col. 7, lines 7-27; Robotham discloses a virtual environment for media production derived from image-based data objects that represent actual physical items on a set in the real world.)

Therefore, at the time of the invention it would have been obvious to a person of ordinary skill in the art to combine Deutscher with Robotham for the benefit combining live/recorded media elements in a virtual stage environment wherein avoiding expensive layering and other post production processes which can occur in media production (col. 12, lines 46-62).

In regards to dependent claim 25, Deutscher discloses a video preview sector, which is generally used to provide a playback of the video presentation or audio program (0104). Deutscher does not expressly disclose *the method for authoring a media presentation according to claim 16, wherein previewing further comprises previewing the presentation in a graphics based virtual reality environment.*

However, Robotham discloses an *augmented reality environment* (col. 7, lines 7-27; Robotham discloses a virtual environment for media production derived from image-based data objects that represent actual physical items on a set in the real world.)

Therefore, at the time of the invention it would have been obvious to a person of ordinary skill in the art to combine Deutscher with Robotham for the benefit combining live/recorded media elements in a virtual stage environment wherein avoiding expensive layering and other post production processes which can occur in media production (col. 12, lines 46-62).

In regards to dependent claim 26, Deutscher discloses the media is imported into the presentation, such as video, documents, slides and other source files to create the presentation (0011-0013). Deutscher does not expressly disclose *the method for authoring a media presentation according to claim 16, wherein the augmented reality environment is a video show of the media presentation environment while the presentation is played in that environment.*

However, Robotham discloses an *augmented reality environment* (col. 7, line 55 – col. 8, lines 1-7); Robotham discloses a virtual environment for media production derived from image-based data objects that represent actual physical items on a set in the real world.)

Therefore, at the time of the invention it would have been obvious to a person of ordinary skill in the art to combine Deutscher with Robotham for the benefit combining live/recorded media elements in a virtual stage environment wherein avoiding expensive layering and other post production processes which can occur in media production (col. 12, lines 46-62).

In regards to dependent claim 27, Deutscher does not expressly disclose the *method for authoring a media presentation according to claim 16, further comprising repeating selecting, manipulating and recording for a plurality of presentation units corresponding to a plurality of media devices in the media presentation environment.*

However, Robotham discloses the *method for authoring a media presentation according to claim 16, further comprising repeating selecting, manipulating and recording for a plurality of presentation units corresponding to a plurality of media devices in the media presentation environment* (col. 14, lines 26 – 51; Robotham discloses how sensors may provide information about the set and image capture devices. Using the broadest interpretation of this meaning, the Examiner concludes the information provided by the sensors could allow the user to manipulate a *plurality of presentation units corresponding to a plurality of media devices in the media presentation environment.*)

Therefore, at the time of the invention it would have been obvious to a person of ordinary skill in the art to combine Deutscher with Robotham for the benefit combining live/recorded media elements in a virtual stage environment wherein avoiding expensive layering and other post production processes which can occur in media production (col. 12, lines 46-62).

In regards to independent claim 28, Deutscher discloses a *presentation previewing interface comprising:*

a media presentation environment representation portion (0103-0105; Deutscher discloses a video preview sector which is generally used to provide a playback of the video presentation).

the media presentation movement portion is used to control a flow of the media presentation preview (0108-0110; Deutscher discloses a presentation slide preview sector).

Deutscher does not expressly disclose *a media presentation movement portion, wherein a media presentation is previewed in a virtual environment depicted in the media presentation environment representation portion.*

However, Robotham discloses *a virtual environment depicted in the media presentation environment representation portion (col. 7, line 55 – col. 8, lines 1-7);* Robotham discloses a virtual environment for media production derived from image-based data objects that represent actual physical items on a set in the real world.)

Therefore, at the time of the invention it would have been obvious to a person of ordinary skill in the art to combine Deutscher with Robotham for the benefit combining live/recorded media elements in a virtual stage environment wherein avoiding expensive layering and other post production processes which can occur in media production (col. 12, lines 46-62).

In regards to dependent claim 29, Deutscher discloses *the media presentation preview interface according to claim 28, further comprising a media presentation outline portion (0099; 408 in Fig 4; Deutscher discloses the user may enter a presentation slide*

Art Unit: 2176

file into a folder of the project file sector. Deutscher illustrates a slide folder entitled PowerPoint referring to Microsoft's PowerPoint presentation graphic program).

In regards to dependent claim 30, Deutscher discloses a video preview sector, which is generally used to provide a playback of the video presentation or audio program (0104). Deutscher does not expressly disclose *the media presentation preview interface according to claim 28, wherein the previewed media presentation controls a plurality of types of media presentation devices.*

However, Robotham discloses *the previewed media presentation controls a plurality of types of media presentation devices* (col. 8, lines 64-67; Robotham discloses the operator may specify and control the parameters for one or more external system (*presentation devices*) used for generating output image streams.)

Therefore, at the time of the invention it would have been obvious to a person of ordinary skill in the art to combine Deutscher with Robotham for the benefit combining live/recorded media elements in a virtual stage environment wherein avoiding expensive layering and other post production processes which can occur in media production (col. 12, lines 46-62).

In regards to dependent claim 31, Deutscher discloses a video preview sector, which is generally used to provide a playback of the video presentation or audio program (0104). Deutscher does not expressly disclose *the media presentation*

Art Unit: 2176

preview interface according to claim 28, wherein the previewed media presentation controls a plurality of a particular type of media presentation device.

However, Robotham discloses *the previewed media presentation controls a plurality of a particular type of media presentation device* (col. 8, lines 64-67; Robotham discloses the operator may specify and control the parameters for one or more external system (*presentation devices*) used for generating output image streams.)

Therefore, at the time of the invention it would have been obvious to a person of ordinary skill in the art to combine Deutscher with Robotham for the benefit combining live/recorded media elements in a virtual stage environment wherein avoiding expensive layering and other post production processes which can occur in media production (col. 12, lines 46-62).

In regards to independent claim 32, Deutscher discloses *a media presentation previewing interface comprising:*

a media presentation environment representation portion (0103-0105; Deutscher discloses a video preview sector which is generally used to provide a playback of the video presentation).

the media presentation movement portion is used to control a flow of the media presentation preview (0108-0110; Deutscher discloses a presentation slide preview sector).

Deutscher does not expressly disclose *a media presentation movement portion, wherein a media presentation is previewed in an augmented reality environment depicted in the media presentation environment representation portion.*

However, Robotham discloses *a virtual environment depicted in the media presentation environment representation portion* (col. 7, line 55 – col. 8, lines 1-7); Robotham discloses a virtual environment for media production derived from image-based data objects that represent actual physical items on a set in the real world.)

Therefore, at the time of the invention it would have been obvious to a person of ordinary skill in the art to combine Deutscher with Robotham for the benefit combining live/recorded media elements in a virtual stage environment wherein avoiding expensive layering and other post production processes which can occur in media production (col. 12, lines 46-62).

In regards to dependent claim 33, Deutscher discloses *the media presentation preview interface according to claim 32, further comprising a media presentation outline portion* (0099; 408 in Fig 4; Deutscher discloses the user may enter a presentation slide file into a folder of the project file sector. Deutscher illustrates a slide folder entitled PowerPoint referring to Microsoft's PowerPoint presentation graphic program).

In regards to dependent claim 34, Deutscher discloses a video preview sector, which is generally used to provide a playback of the video presentation or audio

Art Unit: 2176

program (0104). Deutscher does not expressly disclose *the media presentation preview interface according to claim 32, wherein the previewed media presentation controls a plurality of types of media presentation devices.*

However, Robotham discloses *the previewed media presentation controls a plurality of types of media presentation devices* (col. 8, lines 64-67; Robotham discloses the operator may specify and control the parameters for one or more external system (*presentation devices*) used for generating output image streams.)

Therefore, at the time of the invention it would have been obvious to a person of ordinary skill in the art to combine Deutscher with Robotham for the benefit combining live/recorded media elements in a virtual stage environment wherein avoiding expensive layering and other post production processes which can occur in media production (col. 12, lines 46-62).

In regards to dependent claim 35, Deutscher discloses a video preview sector, which is generally used to provide a playback of the video presentation or audio program (0104). Deutscher does not expressly disclose *the media presentation preview interface according to claim 32, wherein the previewed media presentation controls a plurality of a particular type of media presentation device.*

However, Robotham discloses *the media presentation preview interface according to claim 32, wherein the previewed media presentation controls a plurality of a particular type of media presentation device* (col. 8, lines 64-67; Robotham discloses

the operator may specify and control the parameters for one or more external system *(presentation devices)* used for generating output image streams.)

Therefore, at the time of the invention it would have been obvious to a person of ordinary skill in the art to combine Deutscher with Robotham for the benefit combining live/recorded media elements in a virtual stage environment wherein avoiding expensive layering and other post production processes which can occur in media production (col. 12, lines 46-62).

In regards to independent claim 36, Deutscher discloses *an integrated presentation authoring and preview environment, comprising:*

a camera system that captures live video of physical devices in a presentation environment (0076; Deutscher discloses a camera capable of capturing a sequence of images.).

Deutscher does not expressly disclose *a presentation environment model including a model for each physical device in the presentation environment;*

a graphical user interface coupled with the camera system or the presentation environment model, wherein the presentation environment model is selected from the list comprising a two-dimensional schematic, a three-dimensional schematic, a three-dimensional pictorial image, and a combination of a two-dimensional schematic, a three-dimensional schematic and a three-dimensional pictorial image.

However, Robotham discloses *a presentation environment model including a model for each physical device in the presentation environment* (col. 7, line

Art Unit: 2176

44- col. 8, line 33; Robotham discloses various media elements can be choreographed together within the context of a unified 3D virtual stage.).

a graphical user interface coupled with the camera system or the presentation environment model, wherein the presentation environment model is selected from the list comprising a two-dimensional schematic, a three-dimensional schematic, a three-dimensional pictorial image, and a combination of a two-dimensional schematic, a three-dimensional schematic and a three-dimensional pictorial image (col. 7, line 44- col. 8, line 33; Robotham discloses various media elements can be choreographed together within the context of a unified 3D virtual stage.).

Therefore, at the time of the invention it would have been obvious to a person of ordinary skill in the art to combine Deutscher with Robotham for the benefit combining live/recorded media elements in a virtual stage environment wherein avoiding expensive layering and other post production processes which can occur in media production (col. 12, lines 46-62).

In regards to dependent claim 37, Deutscher does not expressly disclose *the integrated presentation authoring and preview environment according to claim 36, wherein the presentation environment includes a plurality of types of media presentation devices.*

However, Robotham discloses *the integrated presentation authoring and preview environment according to claim 36, wherein the presentation environment includes a plurality of types of media presentation devices (col. 8, lines 64-67; Robotham*

Art Unit: 2176

discloses the operator may specify and control the parameters for one or more external system (*presentation devices*) used for generating output image streams.)

Therefore, at the time of the invention it would have been obvious to a person of ordinary skill in the art to combine Deutscher with Robotham for the benefit combining live/recorded media elements in a virtual stage environment wherein avoiding expensive layering and other post production processes which can occur in media production (col. 12, lines 46-62).

In regards to independent claim 38, Deutscher does not expressly disclose *the integrated presentation authoring and preview environment according to claim 36, wherein the presentation environment includes a plurality of a particular type of media presentation device.*

However, Robotham discloses *the integrated presentation authoring and preview environment according to claim 36, wherein the presentation environment includes a plurality of types of media presentation devices* (col. 8, lines 64-67; Robotham discloses the operator may specify and control the parameters for one or more external system (*presentation devices*) used for generating output image streams.)

Therefore, at the time of the invention it would have been obvious to a person of ordinary skill in the art to combine Deutscher with Robotham for the benefit combining live/recorded media elements in a virtual stage environment wherein avoiding expensive layering and other post production processes which can occur in media production (col. 12, lines 46-62).

In regards to dependent claim 49, Deutscher discloses a *media presentation authoring system architecture including an integrated presentation authoring and preview environment according to claim 36, comprising:*

a media presentation authoring, previewing and playback software component (0104; Deutscher discloses a video preview sector which is generally used to provide a playback of the video presentation or audio program.).

one or more remote control agents corresponding to a media presentation device (0011, 0016, 0026, 0104-0106; Deutscher discloses a video preview sector which includes control buttons to provide playback of the video presentation or audio program.).

9. **Claim 43 is rejected under 35 U.S.C. 103(a) as being unpatentable over Deutscher et al (Pub. No.: US 2004/0001106 A1; Filed Jun. 26, 2002) (hereinafter 'Deutscher') in view of Robotham et al. (Pub. No.: US 2004/0039934 A1; Filed Dec. 18, 2002) (hereinafter 'Robotham') further in view of Land et al. (Pub. No.: US 2004/0039934 A1; Filed Dec. 18, 2002) (hereinafter 'Land').**

In regards to dependent claim 43, Deutscher discloses a *media presentation playback system that plays back an authored media presentation authored in an integrated presentation authoring and preview environment according to claim 36, comprising: one or more remote control agents corresponding to one or more media*

Art Unit: 2176

presentation devices (0011, 0016, 0026, 0104-0106; Deutscher discloses a video preview sector which includes control buttons to provide playback of the video presentation or audio program.).

Deutscher in view of Robotham does not disclose expressly *a master computer*.

However, Land discloses *a master computer* (0381-0382; 5060 Fig. 50; Land teaches a control display manager which is part of a window within a graphical user display.).

Therefore, at the time of the invention, it would have been obvious to a person of ordinary skill in the art to combine Deutscher in view of Robotham with Land for the benefit of providing the user with advanced control features that maintain clarity, intuitive and ease of use (0041).

Art Unit: 2176

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to James J. Debrow whose telephone number is 571-272-5768. The examiner can normally be reached on 8:00-5:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Heather Herndon can be reached on 571-272-4136. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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